

IN THE CLAIMS

Please amend the claims as indicated:

1. Canceled

- 1 2. (original) In a method for determining a fracture pressure gradient of a subsurface
2 region of earth formations comprising:
- 3 (a) obtaining seismic survey information about the subsurface region;
- 4 (b) identifying a plurality of interpreted seismic horizons of interest from the
5 obtained survey information;
- 6 (c) obtaining estimated seismic velocities corresponding to at least one
7 interval between at least one pair of said plurality of seismic horizons;
- 8 (d) calibrating the estimated seismic velocities to the parameter of interest
- 9 (e) using the results of said calibration and the obtained seismic velocities to
10 obtain said fracture pressure gradient at any location within the seismic
11 survey;
- 12 an improvement comprising displaying the parameter of interest on one of:
- 13 (i) P- or S-wave velocity displays;
- 14 (ii) P-wave impedance displays;
- 15 (iii) S-wave impedance displays;
- 16 (iv) P-wave frequency attribute displays;
- 17 (v) S-wave frequency attribute displays;
- 18 (vi) P-wave phase attribute displays;
- 19 (vii) S-wave phase attribute displays;

- 20 (viii) density displays;
- 21 (ix) P-wave amplitude attribute displays;
- 22 (x) S-wave amplitude attribute displays.
- 3. Canceled
- 4. Canceled.